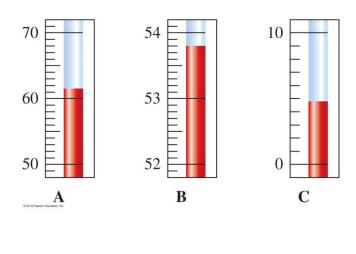
TEST 1 REVIEW

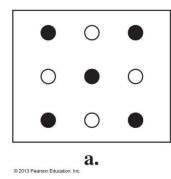
1.	Round the following measurements to 3 significant figures:
	a) 0.0485624 m
	b) 83000000 s
	c) 1842700 g
2.	Convert the following units:
	a) 536 mg to kg
	b) 253 mi to cm (1 mi = 1.6093 km)
	6) 233 mi to cm (1 mi = 1.0073 km)
	c) 120 km/h to miles/min
3.	In each pair below, select the higher temperature.
	a) 10 °C or 40 °F
	b) 300 K or 90 °F

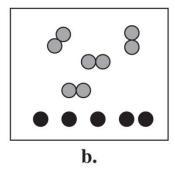
4. Read each Celsius thermometer below with the correct number of digits:

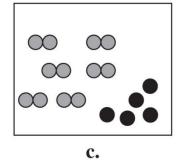


5. Which diagram below illustrates heterogeneous mixture?_____

Which diagram below illustrates homogeneous mixture?_____







- 6. Shown below are the specific heats of several substances. If equal amounts of each substance are heated at the same temperature,
 - a) Which substance will have the highest temperature? Briefly explain.

Substance	Specific heat (J/g°C)
Copper	0.385
Silver	0.235
Titanium	0.523
Iron	0.452

a) Which substance will have the lowest temperature? Briefly explain.

7. How many joules of heat are required to raise the temperature of 975 g of aluminum from 0.0°C to 50.0 °C? The specific heat of aluminum is 0.900 J/g°C.

8. 25.0 kJ of heat are added to a 500.0-g bar of iron metal at 25 °C. What is the final temperature of the iron bar? Specific heat of iron is 0.452 J/g°C.

9.	What mass (in grams) of a 12.0% sugar water solution is needed to supply 20.0 g of sugar?
10.	The price of 1 lb of potato is \$1.75. If all the potatoes sold at the store in one day bring in
	\$1420, how many kg of potato did the grocery shoppers buy?
11.	Celeste's diet restricts her intake of protein to 24 g per day. If she eats an 8.0-oz burger that is 15.0% protein, has she exceeded her protein limit for the day? If yes, how many ounces of a burger would be allowed for Celeste?